

Title (en)
Conductive material and biomedical electrode.

Title (de)
Leitfähiges Material und biomedizinische Elektrode.

Title (fr)
Matériau conducteur et électrode biomédicale.

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Application
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Abstract (en)
An electrically conductive material which is cohesive, uniform, microporous, and electrically conductive is described. This material is tacky, is conformable, has low impedance, is essentially non-irritating to the skin and is useful as a conductive material in biomedical electrodes. It comprises a fixed gel of nonionic synthetic polymer and a disaccharide, notably a polyacrylamide-sucrose matrix. It may contain an aqueous salt solution, particularly when used for a biomedical sensing electrode.

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Citation (search report)

- DD 145062 A5 19801119 - MAX PLANCK GESELLSCHAFT
- GB 2114578 A 19830824 - KI MED I
- GB 1594389 A 19810730 - MAX PLANCK GESELLSCHAFT
- US 4306551 A 19811222 - HYMES ALAN C, et al
- AT 367300 B 19820625 - SEIDERMAN MAURICE [US]
- AT 365932 B 19820225 - RHODES JOHN [GB]
- EP 0085327 B1 19860430
- EP 0004514 A2 19791003 - GUILLOT JACQUELINE
- WO 8100785 A1 19810319 - MINNESOTA MINING & MFG [US]
- CA 1144606 A 19830412 - GRAPHIC CONTROLS CANADA LTD
- DE 2521697 A1 19751204 - MEDTRONIC INC
- US 4125110 A 19781114 - HYMES ALAN C
- US 4391278 A 19830705 - CAHALAN PATRICK T, et al

Cited by
US5183599A; US5124076A; EP0217771A1; US4906237A; EP0282316A3; EP0927062A4; WO9600599A1; WO9106323A1

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